

Project Number:	629
Category:	<i>Marine Hydrokinetic</i>
Date:	June 2009
Subject:	<i>Assess the Design and Inspection Criteria and Standards for Wave and Current Energy Generating Devices</i>
Performing Activity:	PCCI, Inc.
Principal Investigators:	T. Hudon and G. Hagerman
Contracting Agency:	Bureau of Safety and Environmental Enforcement
Summary:	PCCI provided a description of wave and current energy-generating device systems and subsystems and provided a functional taxonomy; identified criteria pertinent to the design, construction, installation, maintenance, and operations of these systems, and reviewed the criteria to determine applicability, adequacy, and suitability; identified existing codes and standards that can be applied to these devices; conducted a regulatory gap analysis; and recommended regulatory initiatives or approaches for addressing identified deficiencies.
Key Findings:	<ul style="list-style-type: none"> • No U.S. regulatory criteria exist to govern wave and current energy devices.
Recommendations:	<ul style="list-style-type: none"> • There is a need for recommended design criteria with requirements for project submittals under the 30 CFR Part 585 regulations. Because FERC Pilot Plant licenses are currently the only existing regulations in the U.S. governing wave and current energy devices.
Subsequent Studies/Activities:	<ul style="list-style-type: none"> • Projects 629 and 628 go hand in hand to assess the state of current and wave energy conversion, statutory regulation, and design guidance availability.
Report Link:	AA : Wave And Current Energy Generating Devices Criteria And Standards, June 2009 by PCCI, INC., Alexandria, VA